



Federal Democratic Republic of Ethiopia

👉 EDICT OF GOVERNMENT 👈

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ET 1182 (2005) (English): Leather Chrome
crust leather - Specification



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**Leather — Chrome crust leather -
Specification**

ICS: 67.080.01

Descriptors: leather, chrome crust, types, grading by defects, by size, requirements, physical, chemical, specification.

Price based on 3 pages.

Reference number
ES 1182: 2005

Foreword

This Ethiopian standard has been prepared under the direction Textile and Leather Technology Standards Committee and published by the Ethiopian Standards Authority of Ethiopia.

In the preparation of this standard reference was made to the following document.

Tanzanian Standard, TZS 191:1984 “Leather –Chrome Crust leather – Specification”.

This second edition ES 1182 cancels and replaces the first editions Leather – chrome crust leather – General requirements – (ES D N4.002: 1990), which has been technically revised.

Acknowledgement is made for the use of the information from the above publication.

Leather – Chrome crust leather - Specification

1 Scope

This Ethiopian standard specifies the requirements for chrome crust leather.

2 Normative references

The following standards contain provisions, which, through reference in this text, constitute provisions of the Ethiopian standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on the Ethiopian standards are encouraged to investigate the possibility of applying the most recent editions of the Ethiopian standard indicated below. Registers of currently valid standards are maintained in the Quality and Standards Authority of Ethiopia.

ES 1180:2005, Leather – Terminology,

ES 1188: 2005, Leather. Chromium as chromic oxide (Cr_2O_3),

ES ISO 4045: 2005, Leather -Determination pH,

ES 1195: 2005, Leather - Determination of moisture content,

ES ISO 3380: 2005, Leather- Determination of shrinkage temperature at the wet-blue stage,

ES ISO: 2418: 205, Leather - Determination of Laboratory samples – Location and Identification,

ES ISO 2419: 2005, Leather - Preparation and conditioning of test samples,

ES ISO 4044*: 2005, Leather – Preparation of chemical test sample,

ES ISO 2588: 2005, Leather -Sampling – Number of items for a gross sample.

3 Definitions

For the purpose of this standard the definitions in ES 1180 shall apply.

4 Types

Chrome crust leather shall be of the following types:

- a) Sheep, goat, calfskins; and
- b) Cattle hide.

5 Grading of Chrome crust leather by appearances / defects.

5.1 Chrome crust leather of sheep, goat, calfskins and cattle hides shall be graded according to table 1 here in.

6 Requirements

6.1 General

The material after wet-blue chrome crust tanning operation shall be tanned, fat – liquored, pressed and dried.

6.2.1 Physical requirements

Chrome crust leather shall comply with the physical requirements specified in table 1 here in

Table 1. Physical requirements for grading chrome crust Leather.

Grade	Visually assessed cutting value	Physical requirements
I	Leather with eventual cutting value of 90% - 100%	To pass the test
II	Leather with eventual cutting value of 75% - 89%	To pass the test
III	Leather with eventual cutting value of 65% - 74%	To pass the test
IV	Leather with eventual cutting value of 45% - 64%	To pass the test
V	Leather with eventual cutting value of 15% - 44%	To pass the test
R (Reject	Leather with eventual cutting value of 0 – 14%	To pass the test

6.2.2 Chemical requirements

Chrome crust leather shall comply with the chemical requirements specified in table 2 here in.

Table 2. Chemical requirements for chrome crust leather

Sr. No.	Characteristics	Goat skins	Sheep skins	Calf-skins	Cattle hides	Method of tests
1	Chromium as (Cr ₂ O ₃) percent by mass, min.	2.5	2.5	2.5	2.5	ES 1188
2	pH of water soluble, min.	2.8	2.8	2.8	2.8	ES ISO 4045
3	Solvent extractable substance percent by mass max.	3.0-7.0	3.0-7.0	3.0-7.0	3.0-7.0	ES ISO 4048
4	Moisture content, % by mass, max.	12	12	12	12	ES 1195
5	Shrinkage temperature, °C, min.	90	90	90	90	ES ISO 3380

6.3 Classification of chrome crust skins by size.

Chrome crust sheep and goatskins shall be classified by size according to table 3 when measured by pin – wheel or electronic method.

Table 3. Classification of sheep and goat chrome crust skins by size

Types	Category by size	Size in dm ² *	Size in ft ² *
Sheepskins; and	Extra small	Less than 23	Less than 2.5
	Small	23 – 32	2.5 – 3.5
	Medium	32 – 42	3.5 – 4.5
	Large	42 – 51	4.5 – 5.5
	Extra large	51 and	5.5 and above
Goatskins	Small	23 – 32	2.5 – 3.5
	Medium	32 – 36	3.5 – 4.0
	Large	36 – 46.5	4.0 – 5.0
	Extra large	46.5 and above	5.0 and above

* 1ft² = 9.29 dm², values converted to dm² and the result rounded to the nearest whole number.

7 Sampling

Sampling of Chrome crust leathers shall be carried out in according to the methods specified in ES ISO 2418, ES ISO 2419, ES ISO 2588 and ES ISO 4044*.

8 Packing

Chrome Crust leather shall be packed in polyethylene plastic bags or wrapped in them or as agreed between the purchaser and producer.

9 Labeling and marking

9.1 Labeling

Each container of Chrome Crust leather shall be labeled with the following information:

- Name and address of manufacturer;
- Country of origin;
- The number of pieces and/or total area;
- Batch number (s);
- The type and grade, and
- Any other label information required by the purchaser.

9.2 Marking

Each container of chrome crust leather that is in compliance with this Ethiopian standard shall bear the Quality mark upon approval by the Designated Authority.

10 Compliance with the Standard.

A lot of Chrome crust leather shall be deemed to comply with this Ethiopian standard if up on inspection and testing the provision in clause 4,5,6,8 and 9 are satisfied.



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- > Ethiopian Standards development;
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- > Laboratory testing in the fields of mechanical, electrical, chemical and biological testing;
- > Calibration of instruments in various measurement areas;
- > Product inspection;
- > Training on standardization, quality, testing and metrology; and
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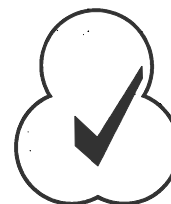
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